

CLAIMS

1. A thin-walled plastic tube (1) having an axial direction (a) and a radial direction (r), the plastic tube (1) being manufactured by injection moulding and comprising a tube body (2) with a tube shoulder with an emptying opening (4) at a first end (8) and an end closure (10) at a second end (9), the tube body (2) having a wall thickness of 0.3-1.2 mm, characterized in that the plastic tube (1) comprises a label (11) applied simultaneously with the injection moulding, the label (11) comprising a plastic film with a tensile strength in the axial direction (a) of the tube (1) which is at least 100 N/mm², preferably at least 150 N/mm², and most preferably at least 210 N/mm² measured according to DIN ISO 527-1/ -3, an elongation at break which is at most 70%, preferably at most 50%, and most preferably at most 25% measured according to DIN ISO 527-1/ -3, and a thickness of at most 90 µm and preferably of at most 75 µm.
2. A thin-walled plastic tube (1) according to Claim 1, the plastic film having a tensile strength in the radial direction (r) of the tube (1) of at least 50 N/mm², preferably at least 80 N/mm², and most preferably at least 120 N/mm², and an elongation at break of at most 250%, preferably at most 200%, and most preferably at most 110%.
3. A thin-walled plastic tube (1) according to Claim 1 or 2, the label (11) extending around the entire tube body (2) in the radial direction (r).
4. A thin-walled plastic tube according to Claim 1, 2 or 3, the label (11) extending over the entire length of the tube body (2), from the shoulder edge (13) to the end closure (10).
5. A thin-walled plastic tube (1) according to any one of Claims 1-4, the label (11) extending in the longitudinal direction into the end closure (10) on the tube body (2).

6. A thin-walled plastic tube (1) according to any one of the preceding claims, the label (11) extending in the longitudinal direction over the edge (13) between the tube body (2) and the tube shoulder (3).
- 5 7. A thin-walled plastic tube (1) according to any one of the preceding claims, the plastic film being a multilayer film comprising at least one layer of oriented polypropylene.
8. A thin-walled plastic tube (1) according to any one of the preceding
10 claims, the end closure (10) of the tube body (2) having a non-linear curved shape.
9. A thin-walled plastic tube (1) according to any one of the preceding claims, the plastic film having a density of between 0.4 and 1.2 g/cm³ and
15 preferably between 0.5 and 1.0 g/cm³.